Announcement:

HESPERIA Summer School at the Christian-Albrechts-University zu Kiel, Germany, August 29, to September 2, 2016
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"Understanding Solar Eruptions and Extreme Space Weather Events – The physics behind"

HESPERIA stands for High Energy Solar Particle Events Forecasting and Analysis and is a project funded under the EU Horizon 2020 program. The Sun is both a source of all life on Earth and sporadically of significant hazards. Solar energetic particle (SEP) events may provoke extreme space weather near Earth. Space weather causes radiation which may be a hazard for satellites and for the astronauts. Not only can they be measured indirectly by their solar electromagnetic emission, but also directly in space by particle detectors and in extreme cases on Earth by ground based cosmic ray detectors. Therefore, scientists observe SEP events and incorporate methods to know or even forecast the radiation hazard associated with them.

Students will attend a variety of lectures on space physics and research topics related to space weather and will gain valuable hands-on experience under the mentorship of a HESPERIA scientist. This program also provides students with opportunities to develop their written communication skills, by presenting their research in a formal report at the end of the summer school.

The school is open to graduate students currently enrolled in astro or space physics, planetary sciences, space engineering or a related field. We will provide free accommodation in a students guest house and daily allowance to cover local expenses. Travel support can be arranged for a few cases. Program acceptance is based primarily on the student's academic record and nomination letter. Applications will be accepted starting in end of January 2016. Applications must be received by April 30, 2016. Acceptance notifications will be sent out by May 15, 2016. For more information about the summer school, including a list of potential mentors, eligibility requirements, and application instructions, please see http://hesperia-space.eu/index.php?option=com_content&view=article&id=189&Itemid=834. Further questions about the program can be addressed to the summer school director (summerschool@hesperia-space.eu).